



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL OF A TYPE OF PROTECTIVE HELMET
WITHOUT VISOR TYPE(S) WITHOUT SPECIFIC ACCESSORY TYPE(S) PURSUANT TO UN
REGULATION NO. 22.06



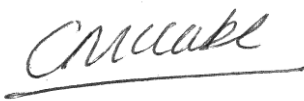
Approval No: E11*22R06/02*0909*00

Reason(s) for extension: Not applicable

1. Trade mark: LEATT
2. Type: MOTO 3.5
3. Sizes: JRM (51-52), JRL (53-54), XS (53-54), S (55-56), M (57-58), L (59-60), XL (61-62),
XXL (63-64)
4. Manufacturer's name:

Leatt Corporation
5. Address:

12 Kiepersol Crescent,
Atlas Gardens Business Park
Cape Farms
7550
South Africa
6. If applicable, name of manufacturer's representative: Not applicable
7. Address: Not applicable
8. Brief description of helmet: See Manufacturer's documentation

9. Helmet with protective lower face cover (P)
10. Type of visor or visors: Not applicable
11. Brief description of visor or visors and inner visor if any: Not applicable
12. Helmet ready for specific accessory (SA) / ready for universal accessories (UA): Not applicable
13. Accessories included in the helmet homologation and functionality: Not applicable
14. If UA helmet, speakers (S or S45) / Microphone (M) / Front mounting (F) / Side mounting (L), Rear mounting (R): Not applicable
15. Submitted for approval on: 14 November 2022
16. Technical service responsible for conducting approval tests: OMEGA S.r.l.
17. Date of report issued by that service: 14 November 2022
18. Number of report issued by that service: XSY002751
19. Comments: None
20. Approval GRANTED
21. Place: BRISTOL
22. Date: 20 FEBRUARY 2023
23. Signature: 

C McCABE
Chief Technical and Statutory Operations Officer

21. The following documents, bearing the approval number shown above, are available on request:

XSY002751





Vehicle
Certification
Agency

THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: E11*22R06/02*0909*00

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: Not applicable

Conformity of Production (COP) Declaration COP Confirmed

Assessment Method Compliance Statement

Date of Initial Clearance June 2018

Date of Last Clearance August 2022

Total number of sheets: 28 (Twenty-eight)

Reasons for Revision: Not applicable

XS002751

Revision Date
&
Office Stamp



LEATT CORPORATION
TECHNICAL FILE 261
REVISION 01
PERSONAL PROTECTIVE EQUIPMENT
HELMET LEATT MOTO 3.5



Prepared by Leatt®-Lab
Nov 2022

R&D Department

Document No: TF 261
Revision 01

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GENERAL INFORMATION

- 1. File Number:** TF 261 **Revision Status:** R 01 **Date:** 15th May 2022
- 2. Manufacturer's name and address**
Leatt Corporation
12 Kepersol Crescent,
Atlas Gardens Business Park
Cape Farms
7550
South Africa
- 3. Company representative**
not applicable
- 4. Name and address of assembly plant**
Dongguan City Eon Sporting Goods Ltd
CN-Dongguan City
Guangdong Province
ChinaTel: +8613431372239, Fax:
+8676981698819
Email: Sunny.Peng@eon-sp.com
- 5. Trade Mark**
LEATT
- 6. Type**
MOTO 3.5

6.1 Helmet Type

Motocross Helmet providing head protection for motorcyclists meeting the requirements of ECE22.06, DOT.

- ECE 22.06 Regulation - Uniform Provisions Concerning the approval of protective helmets and their visors for drivers and passengers of motorcycles and mopeds.
- DOT Standard No. 218 - Motorcycle Helmets – US National Highway Traffic Safety Administration.

PRODUCT INFORMATION

7.1 Parts list

See Annexure A

7.2 Product Pictures

Examples of the Helmet MOTO 3.5







7.3 Product Description (base model)

The Leatt MOTO 3.5 Series Helmet is a motocross helmet.

It features a viscous-elastic polymer material that is built into a circular array of impact-absorbing spacers placed between the rider's head and the helmet's padded EPS liner to help control head rotation within the helmet liner while protecting the brain from low energy impacts -considered to be the leading cause of concussions among off-road motorcycle riders.

About the size of a US quarter, these 'Turbine 360' buttons fulfil two critical duties. The energy absorbing material slows low-speed impacts well before the head contacts the EPS liner, while the spoked 'turbine' design allows the head to rotate slightly inside the helmet, should the rider receive a glancing blow.

Features:

- New high-performance certification ECE 22.06
- Injected Polymer Compound shell in three sizes
- Brain injury reduction technology
- Reduces forces associated with concussion
- Ventilation channels to keep your head cool
- Inner liner is washable and breathable
- Designed to offer great neck brace mobility
- Visor has breakaway function to reduce forces to head and neck in a crash
- 360° Turbine Technology
- Reduced peak brain acceleration by up to 30% at impact speeds associated with concussion
- Reduces peak brain rotational acceleration by up to 40%
- Certified and tested: DOT+ ECE 22.06
- Weight: DOT+ECE from 1270 ± 50g

7.3.1 Product Description (variant models)

None at present.

7.4 Shell Materials

Polycarbonate

7.5 Liner

EPS (Expanded Polystyrene)

7.6 Padding

Moulded EVA

360° 'turbines'

7.7 Accessories

- Emergency removable safety cheek pads
- Peak with break-away function

7.8 Retention System

- Double D type retention system, made in Stainless Steel. See drawings in annexure A for more details.

7.9 Reflective Bands

- See report number "*Report-0265EU15*" with reflective qualities and drawings in annexure A for design details.

7.10 Weight

The following weights have been defined with a tolerance of $\pm 50\text{g}$

Sizes	Weight [g]
JNR YM/YL	1250 ± 50
Adult XS / S	1250 ± 50
Adult M	1300 ± 50
Adult L	1350 ± 50
Adult XL / XXL	1500 ± 50

8. General assembly of product

General dimensions:

Size	Shell			EPS		
	Width	Length	Height	Width	Length	Height
XS / S	248	339	292	242	328	285
M/L	258	355	300	252	345	292
XL/XXL	271	372	320	265	362	312

Please refer to Annexure A for drawings and assembly details.

This is a direct extract from the Leatt data pack with unnecessary detail removed.

9. Outline of method of manufacture: Material testing and cutting, assembly order and the inspections that are made, finishing and inspection

Leatt® Corporation applies quality management with due regard to ISO 9001. Quality procedures detail the type and quantity of inspections to be performed on production runs, including a requirement for sampling of all products, components and manufacturing processes at each stage of production; plus a requirement for testing of completed products at regular intervals, or where there are concerns that a serious non-compliance may have occurred. Leatt Quality personnel are directly involved in the guidance and training of supplier Factory Quality teams where necessary.

Materials and components from non-ISO 9001 accredited suppliers are checked for conformity before being moved to the stores. For such suppliers, a sample representing 5% of a shipment quota is checked and after passing inspection shipments are stored in a specific area. For ISO 9001 accredited suppliers, the inspection is 0.5%, selected at random and checked in the manner described above.

Materials are required to be within the tolerances of the LEATT specifications and designs. In the event of non-conformity, either the entire shipment is repackaged (marked clearly as “rejected”), quarantined, and returned to the supplier for rework or credit or subject to 100% inspection and non-conforming materials removed and rejected.

All fabrics and lining materials are cut to size from templates to an accuracy of $\pm 3\%$. Continual visual checks are made, usually following each cutting operation, to ensure that the pattern has not been damaged or otherwise dimensionally-changed due to wear and tear.

Components for products of the same variant type and size are prepared at the same time, or are prepared on physically separated production lines. Components are clearly tagged or otherwise marked with the variant type and size, and at all stages of the manufacturing process are kept completely separate from other components for different product variants and sizes. If at all possible, production of different variants and sizes does not take place at the same time.

Assembly is performed in accordance with the procedures specified in Leatt® Corporation's Production Manuals. Constant visual inspections are made to ensure that

- All components are for the correct, same variant and size of product
- All badges and labels are fitted

All completed products are then submitted for Final Inspection, where checks are made to ensure that the correct assembly specification has been met. Where this is the case, swing tickets, including

warning labels, are attached by one or more nylon tags and the product is placed within packaging. Should a non-conformance be discovered, however, a “rejected” label is attached to the product, with an explanation of the non-conformance written on the reverse of the label, and returned to the assembly department for corrective action.

10. Sizing

The products described in this Technical File are available to fit a broad range of head sizes.

Model Size	Head Size	Shell	EPS
JNR YM (Youth Medium)	51-52cm	Small	Small
JNR YL (Youth Large)	53-54cm		
Adult XS (Extra Small)			
Adult S (Small)	55-56cm	Medium	Medium
Adult M (Medium)	57-58cm		
Adult L (Large)	59-60cm		
Adult XL (Extra Large)	61-62cm	Large	Large
Adult XXL (Extra Extra Large)	63-64cm		

11. Labelling

11.1 Applicant's statement of labelling

The following information will be clearly affixed to the helmet, in a visible place and respecting the location and dimensions required by the applicable standards.

- Product brand and variant identification (e.g. "Helmet MOTO 3.5");
- The appropriate Certification markings as required by the applicable standards;
- A size designation in accordance with the applicable standards
- A means of identifying the date of manufacture, such as a batch number.
- Its maximum weight, to the nearest 50 grams, as placed on the market.

11.2 Examples of product labels see following reference documents:

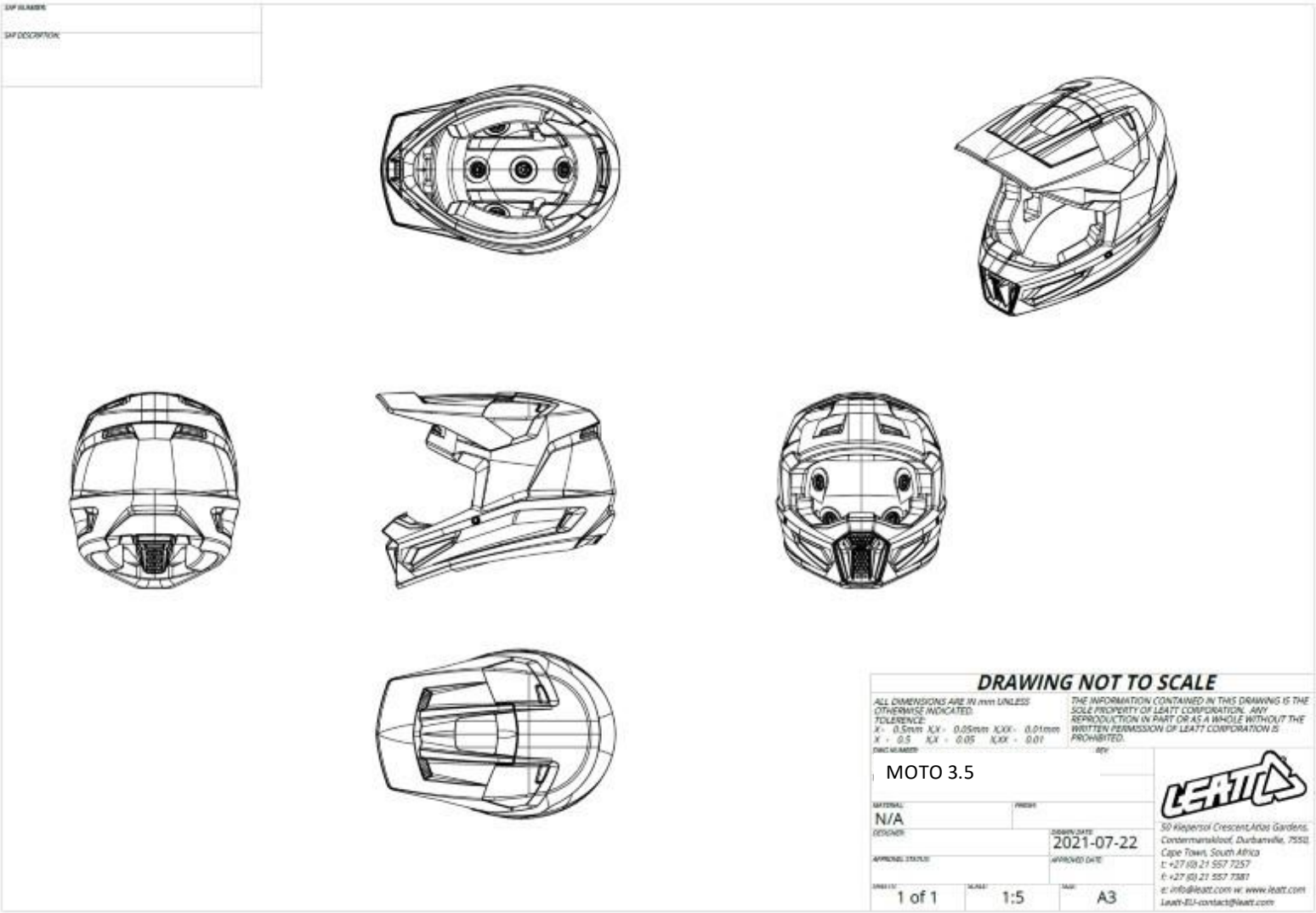
- MOTO3.5-Helmet-labels_REV01
- 3.5 Moto Helmet Packaging CTP V2

ANNEXURE A

TECHNICAL DRAWINGS

See following enclosures for Technical Drawings:

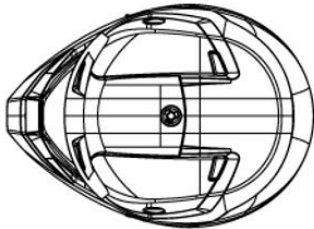
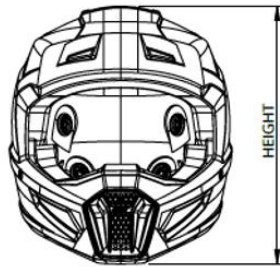
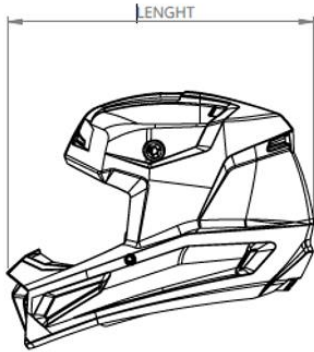
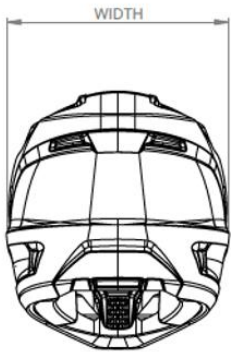
- MOTO-3.5_ASSEMBLY DRAWINGS (**Page 12**)
- MOTO-3.5_SHELL DIMENSIONS (**Page 13**)
- MOTO-3.5_EPS DIMENSIONS (**Page 14**)
- MOTO-3.5_CHIN STRAP LENGTHS (**Page 15**)



SAP NUMBER

SAP DESCRIPTION

	Shell		
Size	Width	Length	Height
XS / S	248	339	292
M / L	258	355	300
XL / XXL	271	372	320



DRAWING NOT TO SCALE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE INDICATED.
TOLERANCE:
X - 0.5mm XX - 0.05mm XXX - 0.01mm
X - 0.5 XX - 0.05 XXX - 0.01

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LEATT CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF LEATT CORPORATION IS PROHIBITED.

DWG NUMBER

REV

MOTO 3.5

MATERIAL

N/A

FINISH

DESIGNER

DRAWN DATE

2021-07-22

APPROVAL STATUS

APPROVED DATE

SHEETS

1 of 1

SCALE

1:5

SIZE

A3

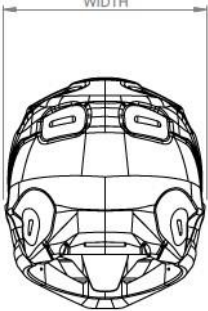
50 Klepersol Crescent, Atlas Gardens,
Contermanskloof, Durbanville, 7550,
Cape Town, South Africa
t: +27 (0) 21 557 7257
f: +27 (0) 21 557 7381
e: info@leatt.com w: www.leatt.com
Leatt-EU-contact@leatt.com



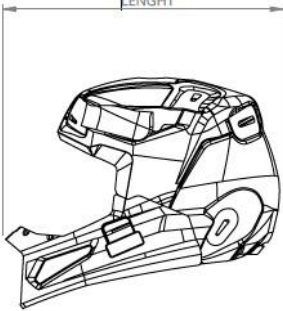
SAP NUMBER:
SAP DESCRIPTION:

	EPS		
Size	Width	Length	Height
XS / S	242	328	285
M / L	252	345	292
XL / XXL	265	362	312

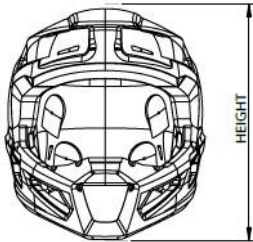
WIDTH

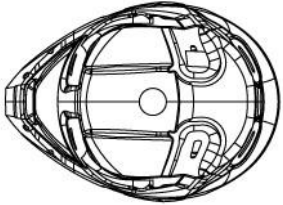


LENGTH



HEIGHT





DRAWING NOT TO SCALE
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE INDICATED.
TOLERANCE:
X - 0.5mm XX - 0.05mm XXX - 0.01mm
X' - 0.5 XX' - 0.05 XXX' - 0.01
DRAWING NUMBER: REV: THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LEATT CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF LEATT CORPORATION IS PROHIBITED.

MOTO 3.5

MATERIAL: N/A

DESIGNER:

APPROVAL STATUS:

FINISH:

DRAWN DATE: 2021-07-22

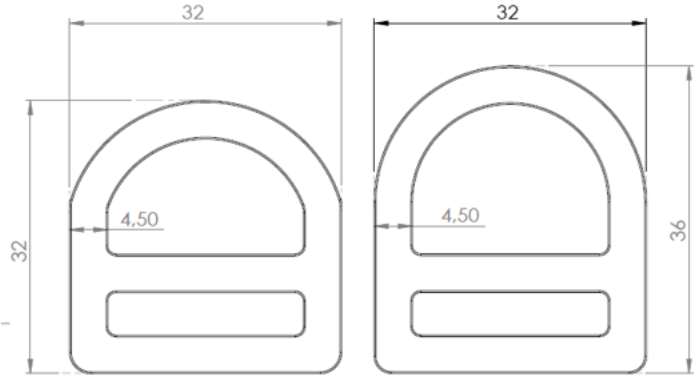
APPROVED DATE:

SHEETS: 1 of 1

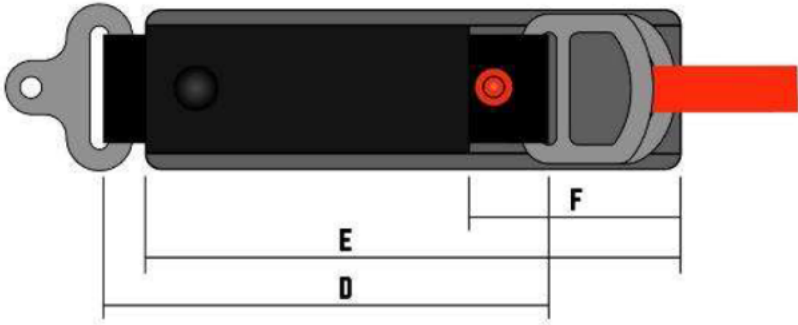
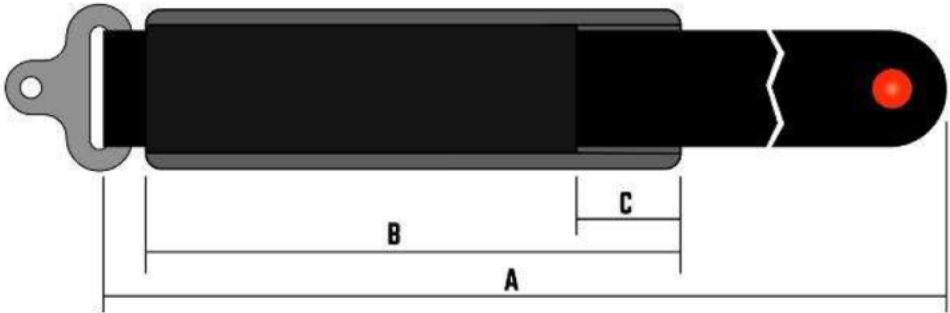
SCALE: 1:5

SIZE: A3


50 Klepersol Crescent, Atlas Gardens,
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f: +27 (0) 21 557 7381
e: info@leatt.com w: www.leatt.com
Leatt-EU-contact@leatt.com



Webbing	Tetoron - 25 mm - 100% polyester
Double D-Ring	Aluminum - Annodized
Hanger	Stainless steel - non coated
Shell rivet	***new design from May 2021 CH1T
Washer	Stainless steel - non coated



Helmet size	Dimensions					
	A	B	C	D	E	F
XS-S	345	140	40	120	140	55
M-L	350	145	40	125	145	55
XL-XXL	355	150	40	130	150	55

***All lenght in mm

Name: Pieter-André Keevy

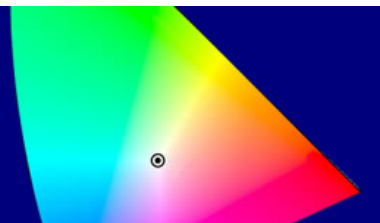
Position: Biomedical Engineer

Signature:





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per il Settore Automotive
Photometric Laboratory
For The Automotive Industry



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Test Report N.0265/EU15 with the date of June the 3th 2015

PHOTOMETRIC AND COLORIMETRIC TESTS ACCORDING TO ECE REG.22

Sample:

Reflective band: White 3M reflective band 610 Series received from LEATT Corporation Inc. – 50 Kiepersol Crescent – Atlas Garden - Durbanville

Dimensions:

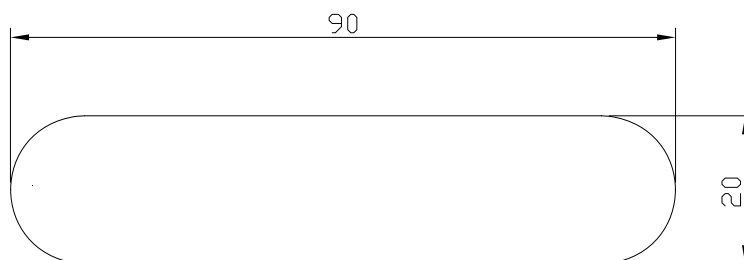


Photo:



1. Photometric test

Test procedure

In the table the coefficients of luminous intensity CIL (mcd/lx) measured on three samples selected from those received, applied on a flat metal surface.

Test conditions:

- Distance between sample and photometric detector: 10 m
- Light source: CIE Standard illuminant A (2856 K)
- Ambient temperature 22 °C
- Angle of divergence: 20'
- Angle of illumination: specified in the table

Measurement uncertainty: $\pm 5\%$

Test results

	Angle of illumination				
	-40° (min 25)	-20° (min 60)	0° (min 100)	20° (min 60)	40° (min 25)
Sample1	32,86	72,49	115,21	70,95	31,33
Sample2	32,32	73,65	117,34	73,82	32,47
Sample3	32,01	71,89	115,04	71,34	32,15

2. Colorimetric test

Test procedure

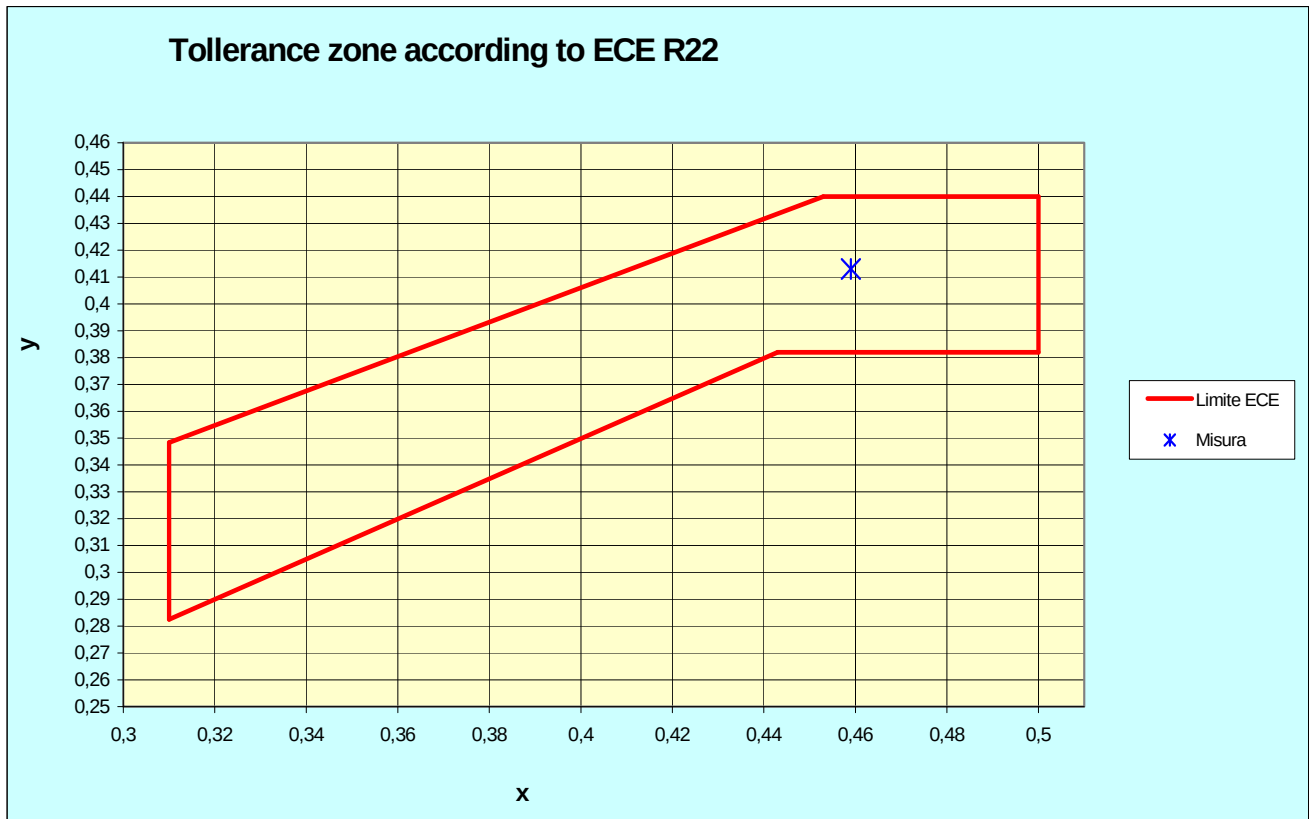
In the graphic the trichromatic coordinates x and y of the light reflected by reflective band when it is illuminated with a standard illuminant A with an observation angle of 1/3° and illumination angles $\beta_1 = \beta_2 = 0^\circ$

Measurement uncertainty: $\pm 2\%$

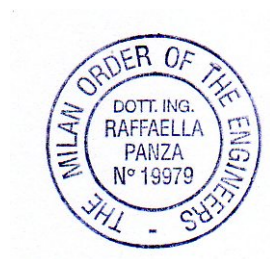
Test results

Trichromatic coordinates of reflected light

x =	0,459
y =	0,413



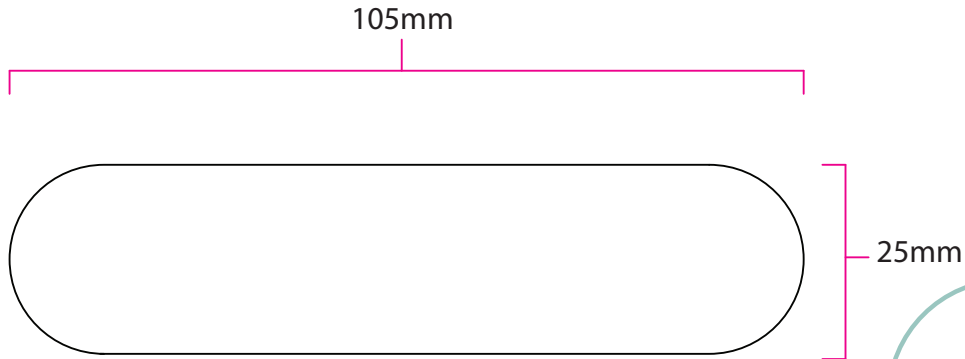
Paderno Dugnano, June 3th 2015



THE HEAD OF THE
PHOTOMETRIC DEPARTMENT
Ing. RAFFAELLA PANZA

Raffaella Panza





**(FR)****AVERTISSEMENT**

Pour pouvoir être utilisé sur le territoire français, un casque doit être conforme à la législation en vigueur. Pour le rendre conforme, coller les autocollants réfléchissants de chaque côté, comme indiqué.

(GB)**WARNING**

In order to use a helmet in French territory your helmet has to conform to current legislation. In order to do so you have to stick the reflective stickers on each side as indicated.

(D)**WARNUNG**

Um einen Helm auf französischem Staatsgebiet nutzen zu können, muss er aktuellen Gesetzen entsprechen. Um dies zu erreichen, müssen die reflektierenden Aufkleber wie angegeben an beiden Seiten angebracht werden.

(IT)**AVVERTENZA**

Per poter utilizzare il casco in territorio francese esso deve essere conforme alla legislazione in vigore. A tal fine bisogna applicare gli adesivi riflettenti su ogni lato come indicato.

(ES)**ADVERTENCIA**

In order to use a helmet in French territory your helmet has to conform to current legislation. In order to do so you have to stick the reflective stickers on each side as indicated.

(BP)**AVISO**

Para poder utilizar un casco en territorio francés, el casco debe cumplir la legislación vigente. Para ello, tiene que colocar las pegatinas reflectantes en cada lado como se indica.

(NL)**WAARSCHUWING**

Om de helm op Frans grondgebied te mogen gebruiken, moet de helm voldoen aan de huidige wetgeving. Daarvoor moet u de reflecterende stickers aan elke zijde aanbrengen, zoals aangegeven.

(SV)**VARNING**

För att kunna använda hjälmen på franskt territorium, måste din hjälm överensstämma med gällande lagstiftning. För att detta ska gälla, måste du sätta på reflexklistermärkena på vardera sidan så som anges.

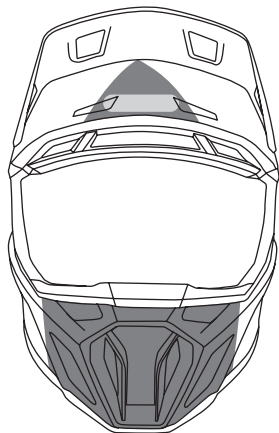
(JP)**警告**

フランス領土内でヘルメットをご使用いただくには、お使いのヘルメットが現行の法規制に準拠している必要があります。そのため、図のように、両側に反射シールを貼る必要があります。

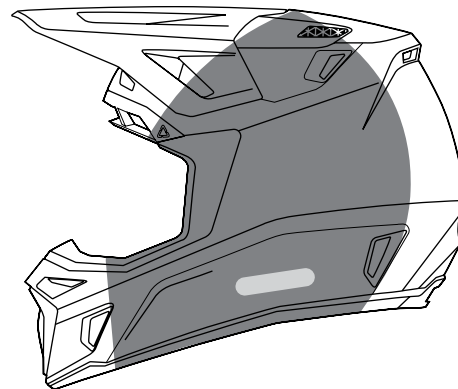




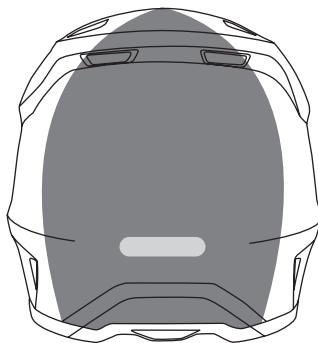
AVANT
FRONT
VORNE
ANTERIORE
DELANTE
FRENTE
VOOR
FRAM
前面



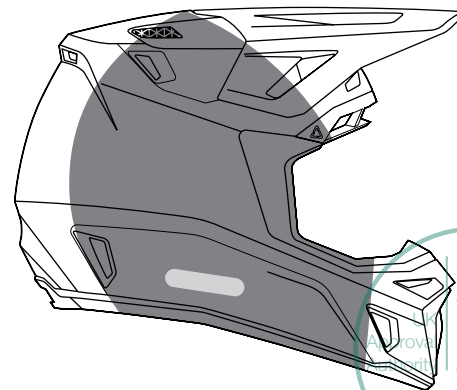
CÔTE
SIDE
SIETE
LATO
COSTADO
FLANCO
KANT
SIDA
サイド



ARRIÈRE
BACK
HINTEN
POSTERIORE
DETRÁS
COSTAS
ACHTER
BAK
背面



CÔTE
SIDE
SIETE
LATO
COSTADO
FLANCO
KANT
SIDA
サイド



Shell labels

***Refer to graphic les for color and placement



Chin strap label - ECE serial number

*** Sewed to the chin strap

Samples of product labels



Comfort liner label

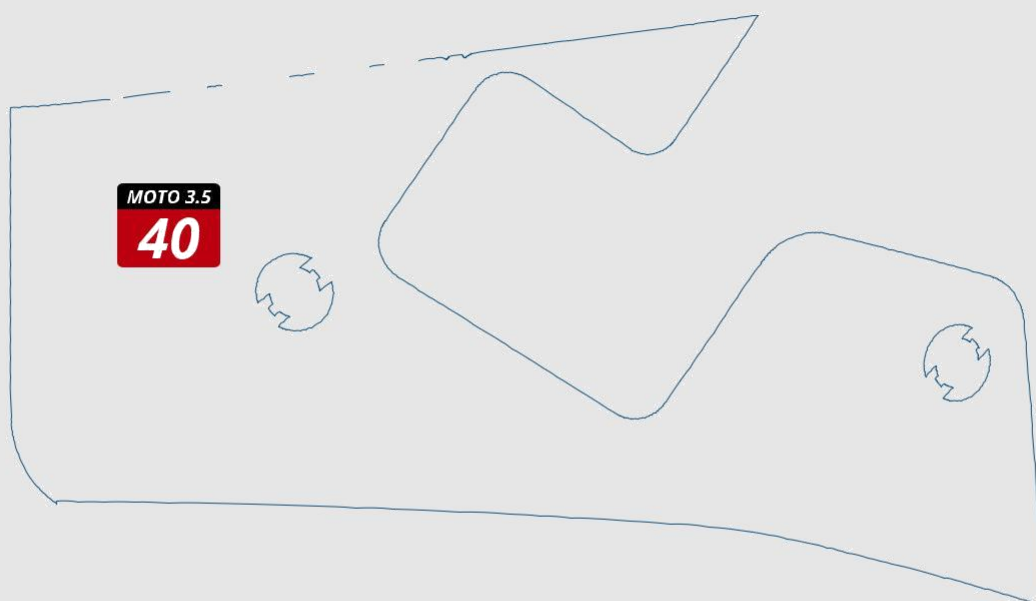
***sewed at the back of the comfort liner



YM	YL	XS	S	M	L	XL	XXL
51-52	53-54	53-54	55-56	57-58	59-60	61-62	63-64

Cheek pads label

***glued at the back of the cheek pad plate



EPS labels

***Must be fixed permanently on EPS

25mm	70mm		
		PRODUCTION # MFG DATE MODEL SIZE WEIGHT	XXXXXXXXXX 2020.XX MOTO 3.5 YM (51-52cm) 1250g +/-50g
		PRODUCTION # MFG DATE MODEL SIZE WEIGHT	XXXXXXXXXX 2020.XX MOTO 3.5 YL (53-54cm) 1250g +/-50g

	PRODUCTION # MFG DATE MODEL SIZE WEIGHT	XXXXXXXXXX 2020.XX MOTO 3.5 XS (53-54cm) 1250g +/-50g
	PRODUCTION # MFG DATE MODEL SIZE WEIGHT	XXXXXXXXXX 2020.XX MOTO 3.5 S (55-56cm) 1250g +/-50g
	PRODUCTION # MFG DATE MODEL SIZE WEIGHT	XXXXXXXXXX 2020.XX MOTO 3.5 M (57-58cm) 1300g +/-50g
	PRODUCTION # MFG DATE MODEL SIZE WEIGHT	XXXXXXXXXX 2020.XX MOTO 3.5 L (59-60cm) 1350g +/-50g
	PRODUCTION # MFG DATE MODEL SIZE WEIGHT	XXXXXXXXXX 2020.XX MOTO 3.5 XL (61-62cm) 1500g +/-50g
	PRODUCTION # MFG DATE MODEL SIZE WEIGHT	XXXXXXXXXX 2020.XX MOTO 3.5 XXL (63-64cm) 1500g +/-50g

WARNING

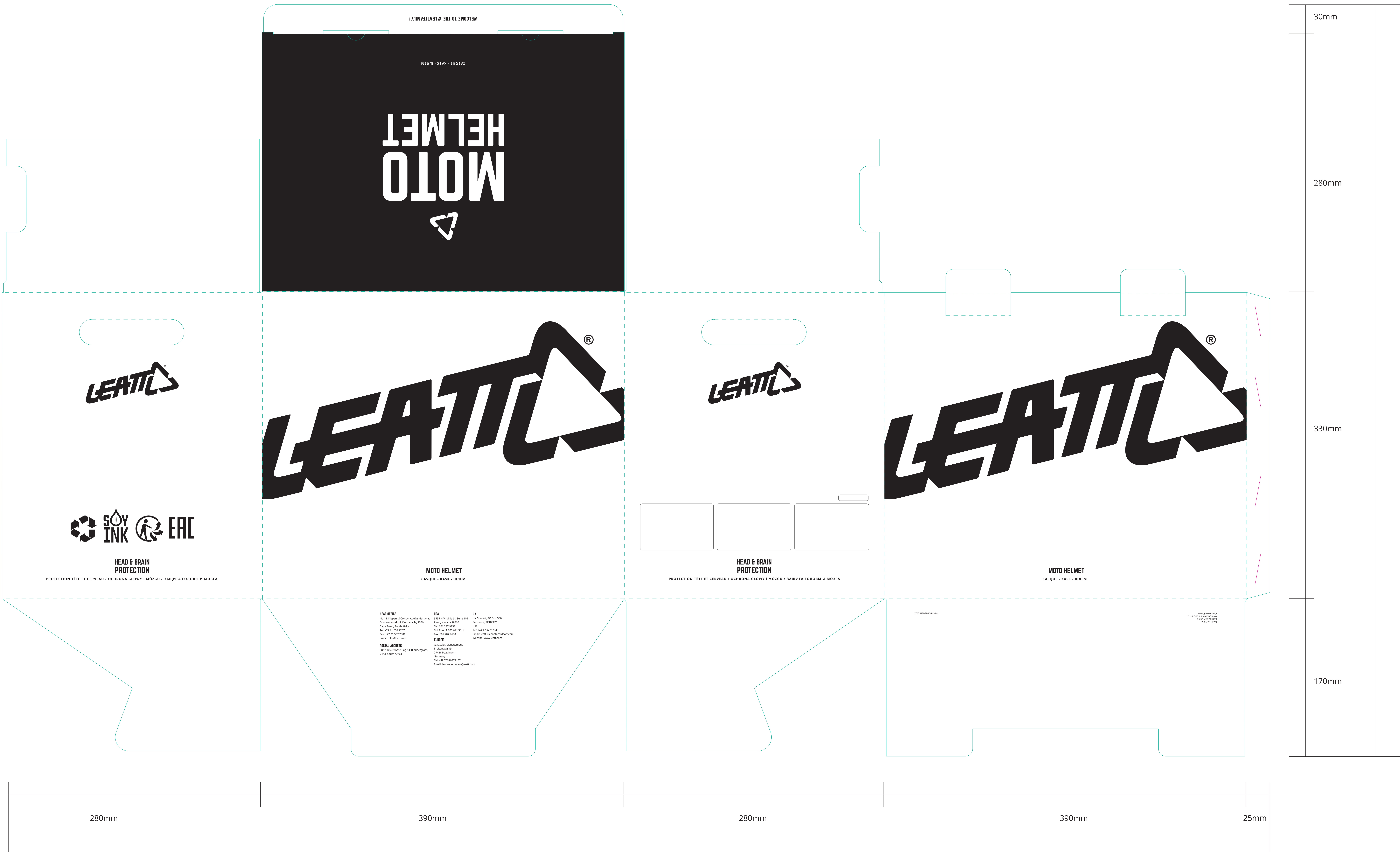
USE AT YOUR OWN RISK. PLEASE READ THE OWNERS MANUAL BEFORE USE. NO HELMET CAN PROTECT THE USER AGAINST ALL FORESEEABLE IMPACTS. SERIOUS INJURY OR DEATH MAY OCCUR WHILST WEARING A HELMET. FASTEN HELMET SECURELY. HELMET CAN BE SERIOUSLY DAMAGED BY COMMON SUBSTANCES WITHOUT DAMAGE BEING VISIBLE TO THE USER SUCH AS: GASOLINE, PAINT, ADHESIVES, CLEANING AGENTS OR BY EXCESSIVE HEAT. MAKE NO MODIFICATIONS TO THE HELMET. APPLY ONLY THE FOLLOWING: MILD SOAP AND WATER FOR CLEANING. IF HELMET EXPERIENCES A SEVERE BLOW, RETURN IT TO THE MANUFACTURER FOR INSPECTION, OR DESTROY IT AND REPLACE IT. SHELL CONSTRUCTED OF ABS AND LINER CONSTRUCTED OF EXPANDED POLYSTYRENE.

MADE IN CHINA BY EON SPORTING GOODS
MOTO 3.5

Spare liner label

***sewed at the back of the comfort liner





TYPE APPROVAL TESTING

UNECE n°22 Series 06

Job Number	[XSY002751]		
Report	Code:	Leatt MOTO3.5 E2206 Helmet Approval 20221114	
	Date:	14/11/2022	
Manufacturer	Name:	Leatt® Corporation	
	Address:	12 Kiepersol Crescent Atlas Gardens Business Park Cape Farms 7550 South Africa	
Representative	[it does not apply]		
Sample	Helmet model:	MOTO3.5	
	Approval n°:	n/a	
	Stickers from n°:	n/a	to n°: n/a Batch n°: n/a
	Arrival date:	22/08/2022	Testing date: 14/11/2022
Test Site	[OMEGA CHINA] / [OMEGA ITALY]		

Essential Technical Data

SIZE RANGE	[JRM 51-52cm JRL 53-54cm XS 53-54cm S 55-56cm M 57-58cm L 59-60cm XL 61-62cm XXL 63-64cm]	
SHELL MATERIAL	[ABS]	
WEIGHT	[JNR,YM,YL,XS,S 1250 ± 50, M 1300 ± 50 ,L 1350 ± 50, XL,XXL 1500 ± 50]	
RETENTION SYSTEM	[DD-Ring]	
REFLECTIVE BANDS	No	
ENVIRONMENTAL CONDITIONS	Temperature [°C]	[22]

Used Machine	Identifier /Manufacturer	Expiry Date
Tracking point of impact	L4 (AD Engineering)	Daily Check IO 7.2.13
Shock absorption / DLS 9000	L1 (AD Engineering)	[15 November 2022]
Chin strap resistance	L5 (Hototech)	[9 December 2024]
Conditioning chamber: Freezer	L10 (Hototech)	[15 December 2022]
Conditioning chamber: Oven	L9 (Hototech)	[15 December 2022]
Compressibility	M0030 (AD Engineering)	[21/05/2025]
Chin strap efficiency [Roll-off]	L7 (Hototech)	[06/01/2025]

The Helmet has been tested in the different configurations as supplied by the client.

Job Number: [XSY002751]



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1/15-Feb-23

HELMET IMAGES



Front



Side 1



Side 2



Rear

Job Number: [XSY002751]

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2/15-Feb-23

GENERAL SPECIFICATION TEST

SIZE		JRM (51-52) JRL (53-54) XS (53-54) S (55-56) M (57- 58) L (59-60) XL (61-62) XXL (63-64)	
Reference	General Specification	Result	
		Pass (or N/A)	Fail
6.1	Hard shell	Pass	
6.1	Impact absorption system (see test data in this report)	Pass	
6.1	Retention system	Pass	
6.2.2	Marked "Does not protect chin from impacts" (if applicable)	N/A	
6.4.1	Extent of protection	Pass	
6.4.2	Nape cylinder	Pass	
6.4.3	Protective padding	Pass	
6.5	Outer round surface – Auditive faculties	Pass	
6.6	Projections (≥ 2 mm)	Pass	
6.7	External Projections ($h \leq 2$ mm – $r \geq 1$ mm) ; ($h \geq 2$ mm – $r \geq 2$ mm)	Pass	
6.8	Helmet interior	Pass	
6.9	Assembly	Pass	
6.10	Chin strap abrasion	Pass	
6.11 - 6.11.1	Retention system – Chin strap width (≥ 20 mm)	Pass	
6.11.2	Under-chin	Pass	
6.11.3	Chin strap regulation system	Pass	
6.11.4	Rigid parts	Pass	
6.11.5	Buckle – "Double D" or "Roller buckle"	Pass	
6.11.6	Pulling flap (red 10 x 20mm)	Pass	
6.11.7	Quick release (general requirement)	N/A	
6.11.8	Quick release (tests par. 7.3, 7.6, 7.7)	N/A	
6.11.9	Wrong buckle use	N/A	
6.12	P/J helmets: device that maintains the intended position even during the complete series of impacts and retention (detaching) test (red)	N/A	
6.13	Material properties (manufacturer declaration)	Pass	
6.14	Helmet breaking	Pass	
6.15, 6.15.3.1 6.15.3.2 6.15.3.3	Peripheral vision:	Lateral visual clearance 105°	Pass
		Upward visual clearance 7°	Pass
		Downward visual clearance 45°	Pass
6.18.2 to 6.18.6	Reflective parts (see test reports)	pass	

Job Number: **[XS002751]**

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3/15-Feb-23

SPECIFICATION	
H.F. Size	[54 to 62]
Impact point	B / P / X / R / S Extra Point
Anvil	Kerbstone / Flat
Impact point Rotational	45° / 180° / 270° / 0° / 135°
Anvil	45° anvil
Conditioning [°C]	
AMB	25 °C ± 5 °C for more than 4 hours
LOW	-10 °C ± 2 °C for more than 4 hours
HIGH	+50 °C ± 2 °C for more than 4 hours and less than 8 hours
UV+H ₂ O	Ultraviolet radiation by a 150-watt xenon- 48 hours Water spray 4 to 6 hours, 1 litre per minute
Speed [m/s]	7.5 m/s + 0.15 m/s (6-0 + 0.15 m/s for the S point) High Speed 8.2 m/s + 0.15 m/s Low Speed 6.0 m/s + 0.15 m/s
HIC	≤ 2400 High Speed ≤ 2880 Low Speed ≤ 1300 Rotational 0.78
Deceleration	≤ 275 Low Speed ≤ 180 Rotational ≤ 10400 rad/s ²

Job Number: [XS002751]



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4/15-Feb-23

IMPACT ABSORPTION TESTS

Ref. 7.3

Helmet size XXL (63-64)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	22-2809	62	B	FLAT	AMB	7.51	164	1286
			X	FLAT		7.51	170	1301
			P	FLAT		7.51	200	1916
			R	FLAT		7.51	159	1304
-	22-2810	62	B	KERB	AMB	7.51	110	820
			X	KERB		7.53	184	1107
			P	KERB		7.53	191	1250
			R	KERB		7.51	122	891
-	22-2811	62	B	KERB	+50	7.51	116	848
			X	KERB		7.51	212	1098
			P	KERB		7.53	171	1297
			R	KERB		7.51	120	866
-	22-2812	62	B	FLAT	-10	7.51	182	1407
			X	FLAT		7.51	176	1289
			P	FLAT		7.53	171	1337
			R	FLAT		7.51	156	1229
			S	FLAT		6.01	128	424
-	22-1464	62	B	FLAT	UV +WET	7.51	171	1536
			X	FLAT		7.51	174	1295
			P	FLAT		7.51	199	1742
			R	FLAT		7.53	157	1252

Job Number: [XSY002751]



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5/15-Feb-23

Helmet size L (59-60)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	22-2814	60	B	FLAT	AMB	7.51	179	1325
			X	FLAT		7.53	180	1343
			P	FLAT		7.53	190	1671
			R	FLAT		7.53	157	1169
-	22-2815	60	B	KERB	AMB	7.51	121	826
			X	KERB		7.55	195	1325
			P	KERB		7.53	190	1259
			R	KERB		7.53	134	973
-	22-2816	60	B	KERB	+50	7.51	118	859
			X	KERB		7.55	249	1417
			P	KERB		7.55	182	1256
			R	KERB		7.51	122	835
-	22-2817	60	B	FLAT	-10	7.51	195	1884
			X	FLAT		7.51	187	1400
			P	FLAT		7.53	188	1526
			R	FLAT		7.51	162	1257
			S	FLAT		6.00	172	569
-	22-2818	60	B	FLAT	UV +WET	7.51	173	1229
			X	FLAT		7.53	186	1412
			P	FLAT		7.55	224	1975
			R	FLAT		7.53	163	1323

Helmet size M (57-58)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	22-1901	57	B	KERB	+50	7.51	121	902
			X	KERB		7.55	209	1266
			P	KERB		7.51	167	1389
			R	KERB		7.51	141	1079
-	22-1900	57	B	FLAT	-10	7.51	190	1493
			X	FLAT		7.51	191	1443
			P	FLAT		7.51	201	1815
			R	FLAT		7.51	183	1661
			S	FLAT		6.00	131	449

Job Number: [XS002751]



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6/15-Feb-23

Helmet size S (55-56)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	22-2819	54	B	FLAT	AMB	7.51	212	2244
			X	FLAT		7.51	174	1302
			P	FLAT		7.51	219	2310
			R	FLAT		7.53	159	1281
-	22-2820	54	B	KERB	AMB	7.51	147	1156
			X	KERB		7.51	193	1176
			P	KERB		7.51	202	1574
			R	KERB		7.53	137	1086
-	22-2821	54	B	KERB	+50	7.51	132	906
			X	KERB		7.53	192	1152
			P	KERB		7.53	188	1520
			R	KERB		7.51	138	1039
-	22-2822	54	B	FLAT	-10	7.51	202	1978
			X	FLAT		7.51	185	1387
			P	FLAT		7.53	195	1505
			R	FLAT		7.51	152	1213
			S	FLAT		6.00	170	691
-	22-2823	54	B	FLAT	UV+WET	7.51	217	2081
			X	FLAT		7.53	176	1306
			P	FLAT		7.53	187	1944
			R	FLAT		7.53	166	1336

Helmet size JRM (51-52)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	22-2826	50	B	KERB	+50	7.51	160	1158
			X	KERB		7.51	152	1048
			P	KERB		7.51	203	1633
			R	KERB		7.55	159	1328
-	22-2827	50	B	FLAT	-10	7.51	223	2183
			X	FLAT		7.51	187	1503
			P	FLAT		7.51	209	1865
			R	FLAT		7.51	192	1695
			S	FLAT		6.00	68	159

Job Number: **[XS002751]**


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7/15-Feb-23

Helmet size XXL (63-64)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	22-2830	62	BXL	KERB	AMB	7.51	107	672
			RXR	KERB		7.51	129	971
			BXPR	KERB		7.51	177	1311
			RXPL	KERB		7.51	152	1213
-	22-2829	62	BXL	FLAT	AMB	7.51	164	1068
			RXR	FLAT		7.51	197	1624
			BXPR	FLAT		7.51	214	2091
			RXPL	FLAT		7.51	215	2044

Helmet size L (59-60)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	22-2836	60	BXL	KERB	AMB	7.51	116	743
			RXR	KERB		7.51	140	1019
			BXPR	KERB		7.51	174	1234
			RXPL	KERB		7.51	149	1184
-	2-2835	60	BXL	FLAT	AMB	7.51	153	940
			RXR	FLAT		7.52	168	1347
			BXPR	FLAT		7.53	220	2168
			RXPL	FLAT		7.51	207	2121

Helmet size S (55-56)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	22-2842	54	BXL	KERB	AMB	7.51	128	875
			RXR	KERB		7.52	163	1225
			BXPR	KERB		7.51	159	1386
			RXPL	KERB		7.51	188	1737
-	22-2842	54	BXL	FLAT	AMB	7.51	165	1168
			RXR	FLAT		7.51	201	1900
			BXPR	FLAT		7.51	201	1865
			RXPL	FLAT		7.53	219	1880

Job Number: [XS002751]



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8/15-Feb-23

Helmet size JRM (51-52)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2400
-	22-2909	52	BXL	KERB	AMB	7.51	119	758
			RXR	KERB		7.51	188	1563
			BXPR	KERB		7.51	158	1355
			RXPL	KERB		7.51	211	1686
-	22-2908	52	BXL	FLAT	AMB	7.51	166	1328
			RXR	FLAT		7.51	213	2135
			BXPR	FLAT		7.51	211	2029
			RXPL	FLAT		7.51	211	1785

HIGH ENERGY IMPACT TESTS

Ref. 7.3 & 7.3.1.4

Helmet size XXL (63-64)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.35÷8.2 [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2880
-	22-2831	62	B	FLAT	AMB	8.22	176	1710
			X	FLAT		8.20	189	1587
			P	FLAT		8.22	219	2101
			R	FLAT		8.20	170	1587

Helmet size L (59-60)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.35÷8.2 [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2880
-	22-2837	60	B	FLAT	AMB	8.22	195	1889
			X	FLAT		8.22	217	1920
			P	FLAT		8.20	232	2088
			R	FLAT		8.20	177	1555

Helmet size S (55-56)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.35÷8.2 [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2880
-	22-2843	54	B	FLAT	AMB	8.20	230	2486
			X	FLAT		8.20	218	1823
			P	FLAT		8.20	217	2715
			R	FLAT		8.20	170	1590

Job Number: [XSY002751]



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9/15-Feb-23

Helmet size JRM (51-52)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.35÷8.2 [m/s]	Deceleration ≤ 275 [g]	HIC ≤ 2880
-	22-2910	50	B	FLAT	AMB	8.20	234	2481
			X	FLAT		8.20	207	1786
			P	FLAT		8.20	225	2627
			R	FLAT		8.20	197	1926

LOW ENERGY IMPACT TESTS

Ref. 7.3 & 7.3.1.4

Helmet size XXL (63-64)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 6.15÷6.0 [m/s]	Deceleration ≤ 180 [g]	HIC ≤ 1300
-	22-2832	62	B	FLAT	AMB	6.02	155	1019
			X	FLAT		6.00	139	781
			P	FLAT		6.02	164	1062
			R	FLAT		6.02	124	725

Helmet size L (59-60)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 6.15÷6.0 [m/s]	Deceleration ≤ 180 [g]	HIC ≤ 1300
-	22-2838	60	B	FLAT	AMB	6.02	149	844
			X	FLAT		6.02	148	807
			P	FLAT		6.05	171	1012
			R	FLAT		6.04	121	682

Helmet size S (55-56)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 6.15÷6.0 [m/s]	Deceleration ≤ 180 [g]	HIC ≤ 1300
-	22-2844	54	B	FLAT	AMB	6.01	157	1176
			X	FLAT		6.00	140	762
			P	FLAT		6.02	165	1175
			R	FLAT		6.02	134	821

Helmet size JRM (51-52)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 6.15÷6.0 [m/s]	Deceleration ≤ 180 [g]	HIC ≤ 1300
-	22-2911	50	B	FLAT	AMB	6.00	172	1190
			X	FLAT		6.01	151	911
			P	FLAT		6.04	168	1203
			R	FLAT		6.02	135	831

Job Number: [XS002751]

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10/15 Feb-23

OBLIQUE IMPACT TEST

Ref. 7.13 & Annex 7

Helmet size XXL (63-64)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.15÷8.0 [m/s]	PRA $\leq 10.400 [\text{rad.s}^{-2}]$	BrIC $\leq 0,78$
-	22-2834	62	45°	45°	AMB	8.07	4183	0.47
			180°	45°		8.11	4018	0.39
			270°	45°		8.07	3256	0.29
	22-2833	62	0°	45°	AMB	8.11	4267	0.46
			135°	45°		8.07	6718	0.35

Helmet size L (59-60)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.15÷8.0 [m/s]	PRA $\leq 10.400 [\text{rad.s}^{-2}]$	BrIC $\leq 0,78$
-	22-2840	60	45°	45°	AMB	8.11	4211	0.49
			180°	45°		8.11	5997	0.44
			270°	45°		8.07	5352	0.36
	22-2839	60	0°	45°	AMB	8.07	4608	0.50
			135°	45°		8.11	5829	0.41

Helmet size S (55-56)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.15÷8.0 [m/s]	PRA $\leq 10.400 [\text{rad.s}^{-2}]$	BrIC $\leq 0,78$
-	22-2846	54	45°	45°	AMB	8.07	4629	0.54
			180°	45°		8.11	5683	0.46
			270°	45°		8.11	4982	0.31
	22-2845	54	0°	45°	AMB	8.07	4993	0.52
			135°	45°		8.07	5912	0.39

Helmet size JRM (51-52)

Sticker n°	Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed 8.15÷8.0 [m/s]	PRA $\leq 10.400 [\text{rad.s}^{-2}]$	BrIC $\leq 0,78$
-	22-2913	50	45°	45°	AMB	8.03	4884	0.55
			180°	45°		8.07	6386	0.39
			270°	45°		8.07	5327	0.26
	22-2912	50	0°	45°	AMB	8.07	4398	0.57
			135°	45°		8.07	6374	0.37

Job Number: [XS002751]



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CHINA: Room 103, No.455-3, Second Ring South Road | Tong'an District, Xiamen, Fujian, 361100 | China

11/15 Feb-23



TEST FOR PROJECTION AND SURFACE FRICTION METHOD B

Ref. 7.4.2

Sticker n°	Helmet Internal Id	Tested Point	Result	
			Pass	Fail
-	23-0180	Side Right	X	-
-	23-0180	Top	X	-

[Complete the table with "X" or "-" as applicable]

RIGIDITY TEST

Ref. 7.5

Sticker n°	Helmet Internal Id	Size	Load Direction	Deformation [mm]		
				Initial (load 30N)	Max 40 [mm] (load 630N)	Final 15 [mm] (load 30N)
-	23-0181	XL	Longitudinal	1	11	2
-	23-0182	XL	Transversal	1	13	1
-	23-0183	L	Longitudinal	1	10	2
-	23-0184	L	Transversal	1	11	1
-	23-0185	S	Longitudinal	1	10	2
-	23-0186	S	Transversal	1	11	2

DYNAMIC TEST OF THE RETENTION SYSTEM

Ref. 7.6

Sticker n°	Helmet Internal Id	Size	Chin Strap	Dynamic 35 [mm]	Residual 25 [mm]
-	22-2828	JRM	DD	32.6	16

Sticker n°	Helmet Internal Id	Size	Chin Strap	Dynamic 35 [mm]	Residual 25 [mm]
-	22-2847	XS	DD	31.2	15.5

Sticker n°	Helmet Internal Id	Size	Chin Strap	Dynamic 35 [mm]	Residual 25 [mm]
-	22-2848	M	DD	32.7	18.3

Sticker n°	Helmet Internal Id	Size	Chin Strap	Dynamic 35 [mm]	Residual 25 [mm]
-	22-2849	XL	DD	33.2	15.1

Job Number: [XSY002751]

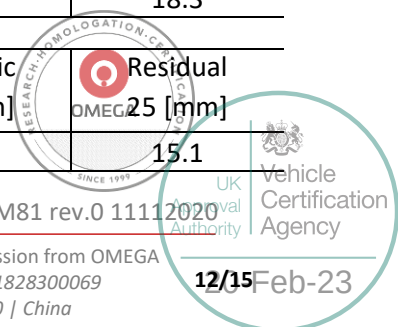
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12/15 Feb-23



RETENTION (DETACHING) TEST - ROLL OFF
Ref. 7.7

CHIN STRAP: [DD ring]				
Sticker n°	Helmet Internal Id	Size	Chin strap	Roll off Angle $\leq 30^\circ$
-	22-2828	JRM	Reverse Position (7.7.2)	28
		JRM	Roll-Off (7.7.3)	18

CHIN STRAP: [DD ring]				
Sticker n°	Helmet Internal Id	Size	Chin strap	Roll off Angle $\leq 30^\circ$
-	22-2847	XS	Reverse Position (7.7.2)	27
		XS	Roll-Off (7.7.3)	17

CHIN STRAP: [DD ring]				
Sticker n°	Helmet Internal Id	Size	Chin strap	Roll off Angle $\leq 30^\circ$
-	22-2848	M	Reverse Position (7.7.2)	28
		M	Roll-Off (7.7.3)	16

CHIN STRAP: [Ratchet]				
Sticker n°	Helmet Internal Id	Size	Chin strap	Roll off Angle $\leq 30^\circ$
-	22-2849	XL	Reverse Position (7.7.2)	28
		XL	Roll-Off (7.7.3)	19


Reverse Position

ROLL-OFF

 Job Number: **[XS002751]**


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MICRO-SLIP TEST OF THE CHIN STRAP

Ref. 7.10

Helmet Internal Id	Chin strap	Result
		[Pass/Fail]
-	DD	PASS

RESISTANCE TO ABRASION OF THE CHIN STRAP

Ref. 7.11

Helmet Internal Id	Test Reference 7.1	Result
		[Pass/Fail]
-	Resistance to Abrasion of the Chin Strap	Pass

QUICK RELEASE MECHANISM MICROMETRIC

Ref. 7.12

Helmet Internal Id	Test Reference 7.12.1	Result
		[Pass/Fail]
-	Inadvertent release by pressure	N/A
Helmet Internal Id	Test Reference 7.12.2	Result
		[Pass/Fail]
-	Easy of release ($\text{Load}_{\text{max}} \leq 30 \text{ or } 60 \text{ [N]}$)	N/A
Helmet Internal Id	Test Reference 7.12.3	Result
		[Pass/Fail]
-	Durability of quick release mechanism Saline fog – 5000 cycles – Traction $2.0 \text{ kN} \pm 50\text{N}$	N/A

Job Number: [XS002751]



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14/15 Feb-23

REFLECTIVE PARTS

Reference	Test	Result	
		Pass or N/A	Fail
6.16.2	Reflective parts (Geometry requirements)	PASS	
6.16.3	Reflective parts (Colorimetric requirements)	PASS	
6.16.4	Reflective parts (Photometric requirements)	PASS	
6.16.5	Reflective parts (Resistance to external agents requirements)	PASS	
6.16.6	Reflective parts (Compatibility of materials requirements)	PASS	

THE SAMPLES TESTED MEET THE REQUIREMENTS OF THE REFERENCE NORM.

Laboratory Technician

(Gao Yaming)
Gao Yaming

Laboratory Manager

(Kidman Yu)
Kidman Yu

(Juan Pablo Cuesta)
Juan Pablo Cuesta

END OF REPORT

Job Number: [XS002751]



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15/15 Feb-23

QUALIFICATION TESTING

UNECE n°22 Series 06

Job Number	XSY002751			
Report	Code:	Leatt MOTO 3.5 E06 Helmet Qualification 20221220		
	Date:	20/12/2022		
Manufacturer	Name:	Leatt® Corporation		
	Address:	12 Kiepersol Crescent	Atlas Gardens	Business Park Cape Farms 7550 South Africa
Representative	[it does not apply]			
Sample	Helmet model:	MOTO 3.5		
	Approval n°:	E11*22R06/02*0909*00		
	Stickers from n°:	1	to n°:	3200 Batch n°: 1
	Arrival date:	10/12/2022	Testing date:	19/12/2022

Essential Technical Data

SIZE RANGE	[JRM 51-52cm JRL 53-54cm XS 53-54cm S 55-56cm M 57-58cm L 59-60cm XL 61-62cm XXL 63-64cm]
SHELL MATERIAL	[ABS]
WEIGHT	[JNR,YM,YL,XS,S 1250 ± 50, M 1300 ± 50 ,L 1350 ± 50, XL,XXL 1500±50]
RETENTION SYSTEM	[DD-Ring]
REFLECTIVE BANDS	YES
ENVIRONMENTAL CONDISTIONS	Temperature [°C] [22]

Used Machine	Identifier /Manufacturer	Expiry Date
Tracking point of impact	L4 (AD Engineering)	Daily Check IO 7.2.13
Shock absorption / DLS 9000	L1 (AD Engineering)	[15 January 2023]
Chin strap resistance	L5 (Hototech)	[9 December 2024]
Conditioning chamber: Freezer	L10 (Hototech)	[15 December 2023]
Conditioning chamber: Oven	L9 (Hototech)	[15 December 2023]

The Helmet has been tested in the different configurations as supplied by the client.

The helmets are divided in n°			12	batches
Group n°		Size	helmets	
1	The largest size	XXL	10	
2	The largest size	XXL	10	
3	The largest size	L	10	
4	The largest size	L	10	
5	The small size	S	10	
6	The small size	S	10	
7	The JR-M size	JR-M	10	
8	The JR-M size	JR-M	10	
9	The largest size	XL	10	
10	The medium size	M	10	
11	The smallest size	XS	10	
12	The JR-M size	JR-M	10	

SHOCK ABSORPTION TESTS

Ref. 7.3

Group n°1		XXL (63-64)			
Head-form: “62”		Impact Point: “B”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000001	22-4340		7.55	934	162
000002	22-4341		7.51	982	153
000003	22-4342		7.53	1070	173
000004	22-4343		7.51	962	144
000005	22-4344		7.53	977	158
000006	22-4345		7.55	940	130
000007	22-4346		7.51	1072	157
000008	22-4347		7.53	982	148
000009	22-4348		7.55	1009	162
000010	22-4349		7.55	983	157
Mean of the value				$g_m = \sum g_i / 10$	154
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		12
Condition				$g_m + 2.4 \cdot S \leq 275$	183

Group n°1		XXL (63-64)			
Head-form: “62”		Impact Point: “P”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000001	22-4340		7.53	1741	192
000002	22-4341		7.51	1705	170
000003	22-4342		7.53	1420	165
000004	22-4343		7.53	1371	156
000005	22-4344		7.51	1466	179
000006	22-4345		7.53	1525	178
000007	22-4346		7.53	1424	173
000008	22-4347		7.51	1544	168
000009	22-4348		7.53	1272	169
000010	22-4349		7.51	1169	192
Mean of the value				$g_m = \sum g_i / 10$	174
Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	11
Condition				$g_m + 2.4 \cdot S \leq 275$	202

Group n°1		XXL (63-64)			
Head-form: “62”		Impact Point: “S”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000001	22-4340		6.02	644	238
000002	22-4341		6.04	646	218
000003	22-4342		6.02	627	210
000004	22-4343		6.04	828	246
000005	22-4344		6.01	694	232
000006	22-4345		6.01	680	210
000007	22-4346		6.04	470	184
000008	22-4347		6.04	559	179
000009	22-4348		6.02	639	191
000010	22-4349		6.01	704	223
Mean of the value				$g_m = \sum g_i / 10$	213
Standard deviation			$S = [\sum (g_i - g_m)^2 / 9]^{1/2}$		23
Condition				$g_m + 2.4 \cdot S \leq 275$	268

Group n°2		XXL (63-64)			
Head-form: “62”		Impact Point: “X”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000011	22-3230		7.53	1192	211
000012	22-3231		7.55	1108	223
000013	22-3232		7.53	1160	204
000014	22-3233		7.55	1180	221
000015	22-3234		7.53	1125	199
000016	22-3235		7.53	1208	216
000017	22-3236		7.55	1177	226
000018	22-3237		7.55	1227	235
000019	22-3238		7.53	1275	253
000020	22-3239		7.53	1271	236
Mean of the value				$g_m = \sum g_i / 10$	222
Standard deviation				$S = [\sum (g_i - g_m)^2 / 9]^{1/2}$	16
Condition				$g_m + 2.4 \cdot S \leq 275$	261

Group n°2		XXL (63-64)			
Head-form: “62”		Impact Point: “R”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000011	22-4350		7.55	932	130
000012	22-4351		7.53	899	128
000013	22-4352		7.51	940	129
000014	22-4353		7.53	901	126
000015	22-4354		7.53	872	125
000016	22-4355		7.51	913	128
000017	22-4356		7.53	926	127
000018	22-4357		7.53	913	123
000019	22-4358		7.53	928	127
000020	22-4359		7.53	906	126
Mean of the value				$g_m = \sum g_i / 10$	127
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		2
Condition				$g_m + 2.4 \cdot S \leq 275$	132

Group n°3		L (59-60)			
Head-form: “60”		Impact Point: “B”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000021	22-4360		7.59	803	117
000022	22-4361		7.51	1029	153
000023	22-4362		7.51	1060	151
000024	22-4363		7.51	857	136
000025	22-4364		7.53	1272	162
000026	22-4365		7.53	832	143
000027	22-4366		7.51	954	145
000028	22-4367		7.53	1017	145
000029	22-4368		7.53	883	140
000030	22-4369		7.53	1164	163
Mean of the value				$g_m = \sum g_i / 10$	146
Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	13
Condition				$g_m + 2.4 \cdot S \leq 275$	178

Group n°3		L (59-60)			
Head-form: “60”		Impact Point: “P”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000021	22-4360		7.51	1659	182
000022	22-4361		7.51	1038	147
000023	22-4362		7.53	1098	148
000024	22-4363		7.53	1191	144
000025	22-4364		7.51	1352	161
000026	22-4365		7.59	1249	161
000027	22-4366		7.51	1473	165
000028	22-4367		7.51	1306	167
000029	22-4368		7.53	1356	155
000030	22-4369		7.53	1624	172
Mean of the value				$g_m = \sum g_i / 10$	160
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{\frac{1}{2}}$		12
Condition				$g_m + 2.4 \cdot S \leq 275$	189

Group n°3		L (59-60)			
Head-form: “60”		Impact Point: “S”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000021	22-4360		6.01	685	167
000022	22-4361		6.02	334	107
000023	22-4362		6.02	557	136
000024	22-4363		6.02	467	124
000025	22-4364		6.02	465	116
000026	22-4365		6.01	456	161
000027	22-4366		6.01	335	102
000028	22-4367		6.02	591	163
000029	22-4368		6.02	870	211
000030	22-4369		6.01	830	247
Mean of the value				$g_m = \sum g_i / 10$	153
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		47
Condition				$g_m + 2.4 \cdot S \leq 275$	266

Group n°4		L (59-60)			
Head-form: “60”		Impact Point: “X”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000031	22-4370		7.51	1180	174
000032	22-4371		7.53	1290	228
000033	22-4372		7.53	1361	233
000034	22-4373		7.51	1158	171
000035	22-4374		7.51	1142	174
000036	22-4375		7.53	1194	186
000037	22-4376		7.53	1363	225
000038	22-4377		7.51	1152	171
000039	22-4378		7.51	1279	196
000040	22-4379		7.53	1100	166
Mean of the value				$g_m = \sum g_i / 10$	192
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		27
Condition				$g_m + 2.4 \cdot S \leq 275$	256

Group n°4		L (59-60)			
Head-form: “60”		Impact Point: “R”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000031	22-4370		7.53	1082	145
000032	22-4371		7.51	978	135
000033	22-4372		7.51	958	136
000034	22-4373		7.53	1303	162
000035	22-4374		7.55	1141	149
000036	22-4375		7.51	1395	171
000037	22-4376		7.53	1218	148
000038	22-4377		7.53	1062	140
000039	22-4378		7.53	1394	169
000040	22-4379		7.51	1290	153
Mean of the value				$g_m = \sum g_i / 10$	151
Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{\frac{1}{2}}$	13
Condition				$g_m + 2.4 \cdot S \leq 275$	182

Group n°5		S (55-56)			
Head-form: “54”		Impact Point: “B”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000041	22-4380		7.53	1158	152
000042	22-4381		7.53	1062	175
000043	22-4382		7.53	1074	140
000044	22-4383		7.53	1048	145
000045	22-4384		7.51	1392	181
000046	22-4385		7.51	1075	174
000047	22-4386		7.53	1102	144
000048	22-4387		7.53	1111	147
000049	22-4388		7.53	1263	158
000050	22-4389		7.53	1211	149
Mean of the value				$g_m = \sum g_i / 10$	157
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{\frac{1}{2}}$		15
Condition				$g_m + 2.4 \cdot S \leq 275$	192

Group n°5		S (55-56)			
Head-form: “54”		Impact Point: “P”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000041	22-4380		7.56	1795	193
000042	22-4381		7.51	1954	194
000043	22-4382		7.51	1729	194
000044	22-4383		7.55	2010	199
000045	22-4384		7.51	1678	198
000046	22-4385		7.51	1639	194
000047	22-4386		7.59	1698	190
000048	22-4387		7.51	2200	216
000049	22-4388		7.59	1963	204
000050	22-4389		7.56	1879	199
Mean of the value				$g_m = \sum g_i / 10$	198
Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	7
Condition				$g_m + 2.4 \cdot S \leq 275$	216

Group n°5		S (55-56)			
Head-form: “54”		Impact Point: “S”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000041	22-4380		6.01	258	97
000042	22-4381		6.01	490	131
000043	22-4382		6.01	666	154
000044	22-4383		6.02	302	92
000045	22-4384		6	916	182
000046	22-4385		6.01	442	142
000047	22-4386		6.02	435	115
000048	22-4387		6.02	764	150
000049	22-4388		6.01	540	134
000050	22-4389		6.01	756	153
Mean of the value				$g_m = \sum g_i / 10$	135
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		28
Condition				$g_m + 2.4 \cdot S \leq 275$	201

Group n°6		S (55-56)			
Head-form: “54”		Impact Point: “X”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000051	22-4390		7.51	1301	210
000052	22-4391		7.51	1342	213
000053	22-4392		7.53	1378	222
000054	22-4393		7.51	1379	225
000055	22-4394		7.51	1380	214
000056	22-4395		7.51	1379	223
000057	22-4396		7.53	1409	233
000058	22-4397		7.51	1545	266
000059	22-4398		7.51	1315	207
000060	22-4399		7.59	1463	245
Mean of the value				$g_m = \sum g_i / 10$	226
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9\right]^{1/2}$		18
Condition				$g_m + 2.4 \cdot S \leq 275$	269

Group n°6		S (55-56)			
Head-form: “54”		Impact Point: “R”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000051	22-4390		7.56	1075	140
000052	22-4391		7.51	1164	145
000053	22-4392		7.51	1141	145
000054	22-4393		7.53	1148	143
000055	22-4394		7.53	1114	147
000056	22-4395		7.51	1146	139
000057	22-4396		7.53	1130	139
000058	22-4397		7.53	1084	135
000059	22-4398		7.53	1156	143
000060	22-4399		7.51	1121	141
Mean of the value				$g_m = \sum g_i / 10$	142
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		4
Condition				$g_m + 2.4 \cdot S \leq 275$	150

Group n°7		JR-M (51-52)			
Head-form: “50”		Impact Point: “B”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000061	22-4400		7.51	1674	198
000062	22-4401		7.51	1386	164
000063	22-4402		7.51	1707	204
000064	22-4403		7.51	1396	168
000065	22-4404		7.59	1422	168
000066	22-4405		7.59	1495	175
000067	22-4406		7.51	1747	203
000068	22-4407		7.53	1436	175
000069	22-4408		7.51	1420	168
000070	22-4409		7.59	1328	170
Mean of the value				$g_m = \sum g_i / 10$	179
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		16
Condition				$g_m + 2.4 \cdot S \leq 275$	217

Group n°7		JR-M (51-52)			
Head-form: “50”		Impact Point: “P”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000061	22-4400		7.51	1969	201
000062	22-4401		7.59	1919	192
000063	22-4402		7.51	2190	205
000064	22-4403		7.53	2029	214
000065	22-4404		7.51	1944	200
000066	22-4405		7.51	2264	203
000067	22-4406		7.51	1877	209
000068	22-4407		7.51	2050	203
000069	22-4408		7.51	1813	197
000070	22-4409		7.51	2261	208
Mean of the value				$g_m = \sum g_i / 10$	203
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		6
Condition				$g_m + 2.4 \cdot S \leq 275$	218

Group n°7		JR-M (51-52)			
Head-form: “50”		Impact Point: “S”		Anvil:	FLAT
Sticker n°	Helmet Internal Id	Cond. [-10°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000061	22-4400		6	399	113
000062	22-4401		6.01	633	129
000063	22-4402		6.01	456	115
000064	22-4403		6.01	329	88
000065	22-4404		6.01	410	133
000066	22-4405		6.01	615	144
000067	22-4406		6	399	110
000068	22-4407		6.01	300	89
000069	22-4408		6.02	358	99
000070	22-4409		6.01	229	92
Mean of the value				$g_m = \sum g_i / 10$	111
Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	20
Condition				$g_m + 2.4 \cdot S \leq 275$	158

Group n°8		JR-M (51-52)			
Head-form: “50”		Impact Point: “X”		Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000071	22-4410		7.53	1205	171
000072	22-4411		7.51	1247	169
000073	22-4412		7.53	1295	181
000074	22-4413		7.53	1262	173
000075	22-4414		7.51	1225	167
000076	22-4415		7.53	1247	169
000077	22-4416		7.51	1205	166
000078	22-4417		7.53	1288	176
000079	22-4418		7.51	1292	172
000080	22-4419		7.53	1270	173
Mean of the value				$g_m = \sum g_i / 10$	172
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		4
Condition				$g_m + 2.4 \cdot S \leq 275$	182

Group n°8		JR-M (51-52)			
Head-form:	“50”	Impact Point:	“R”	Anvil:	KERB
Sticker n°	Helmet Internal Id	Cond. [50°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
000071	22-4410		7.51	1315	164
000072	22-4411		7.53	1339	155
000073	22-4412		7.51	1396	156
000074	22-4413		7.51	1412	163
000075	22-4414		7.51	1448	158
000076	22-4415		7.51	1383	158
000077	22-4416		7.51	1475	169
000078	22-4417		7.51	1410	161
000079	22-4418		7.51	1295	159
000080	22-4419		7.53	1429	155
Mean of the value				$g_m = \sum g_i / 10$	160
Standard deviation			$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		4
Condition				$g_m + 2.4 \cdot S \leq 275$	171

RETENTION SYSTEM STRENGTH

Ref. 7.6

Group n°9		XL (61-62)			
Head-form: “62”		Description: [DD]			
Sticker n°	Helmet Internal Id	Cond. [22°C]		Dynamic Ext. ≤ 35 [mm]	Residual Ext. ≤ 25 [mm]
000081	22-4420			31.6	12.4
000082	22-4421			32	12.7
000083	22-4422			32.9	13.8
000084	22-4423			31.2	11.9
000085	22-4424			30.3	10.8
000086	22-4425			31.9	12.8
000087	22-4426			32.8	13.5
000088	22-4427			32.3	12.9
000089	22-4428			32	12.6
000090	22-4429			32.3	13.1
Mean of the value				Xm	32
Standard deviation			S	1	1
Condition			$Xm + 2,4S$	34	15

Group n°10			M (57-58)		
Head-form: “57”		Description: [DD]			
Sticker n°	Helmet Internal Id	Cond. [22°C]		Dynamic Ext. ≤ 35 [mm]	Residual Ext. ≤ 25 [mm]
000091	22-4430			33.6	13.4
000092	22-4431			33.6	13.6
000093	22-4432			33.9	14.6
000094	22-4433			32.8	12.2
000095	22-4434			33.1	13
000096	22-4435			32.8	12.3
000097	22-4436			33.5	13.3
000098	22-4437			33.1	13.1
000099	22-4438			33	12.9
000100	22-4439			32.3	12.6
Mean of the value				Xm	33
Standard deviation			S	0	1
Condition			$Xm + 2,4 \cdot S$	34	15

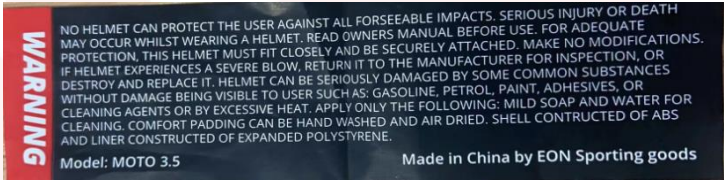
Group n°11			XS (53-54)		
Head-form: “54”		Description: [DD]			
Sticker n°	Helmet Internal Id	Cond. [22°C]		Dynamic Ext. ≤ 35 [mm]	Residual Ext. ≤ 25 [mm]
000101	22-4440			33.5	14.9
000102	22-4441			32.4	13.3
000103	22-4442			32.3	13.9
000104	22-4443			32.9	13.6
000105	22-4444			32	12.8
000106	22-4445			32.6	13.5
000107	22-4446			33.3	14.6
000108	22-4447			32.6	13.8
000109	22-4448			32.4	13.2
000110	22-4449			31.8	13
Mean of the value				Xm	33
Standard deviation			S	1	1
Condition			$Xm + 2,4 \cdot S$	34	15

Group n°12
JRM (51-52)
Head-form: "52"
Description: [DD]

Sticker n°	Helmet Internal Id	Cond. [22°C]		Dynamic Ext. ≤ 35 [mm]	Residual Ext. ≤ 25 [mm]
000111	22-4450			33	16.7
000112	22-4451			33.6	15.9
000113	22-4452			32.9	16.2
000114	22-4453			31	15.2
000115	22-4454			33	16.6
000116	22-4455			32.2	15.9
000117	22-4456			33.2	17
000118	22-4457			32.5	15.9
000119	22-4458			32	16
000120	22-4459			31.8	15.5
Mean of the value			X_m	33	16
Standard deviation			S	1	1
Condition			$X_m + 2,4 \cdot S$	34	17



LABELLING

Ref.	Requirement	Description or image
	Method of Attachment to helmet at point of sale	
14.1	"For adequate protection, this helmet must fit closely and be securely attached. Any helmet that has sustained a violent impact should be replaced"	[PASS]
	if fitted with a non protective lower face cover:	[Not Applicable]
	"Does not protect chin from impacts" together with the symbol indicating the unsuitability of the lower face cover to offer any protection against impacts to the chin.	
14.2	specific warning in the above-mentioned label:	[PASS]
	" 'Warning' - Do not apply paint, stickers, petrol or other solvents to this helmet".	
14.4	bears a label showing the type or types of visor that have been approved at the manufacturer's request.	[PASS] Not Applicable

MARKING

Ref.	Requirement	Description or image
	Method of Marking to the helmet	
14.3	protective helmet is clearly marked with its size and its maximum weight, to the nearest 50 grams, as placed on the market.	[PASS] 

ANNEX 2A	The approval number and the production serial number shall be placed close to the circle and either above or below the letter "E" or to the left or right of that letter.	
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THE SAMPLES TESTED MEET THE REQUIREMENTS OF THE REFERENCE NORM

Laboratory Technician
(Gao Yaming)
Gao Yaming

Laboratory Manager
(Kidman Yu)
Kidman Yu

(Juan Pablo Cuesta)

END OF REPORT

VCA JOB NUMER: XSJ002751MANUFACTURER: Leatt® Corporation (South Africa).TYPE: MOTO 3.5

The undersigned confirms that the tests conducted under the above job number have been carried out in accordance with the requirements of the specified Regulation/Directive and the Licence between OMEGA S.R.L. and VCA relating to type approval testing.

The undersigned has not been involved in any design nor development work on the products to be approved nor, any related product.

SIGNED:

NAME (in capitals): J.P. CUESTA RUIZ

DATE: 27 October 2022